

UNIVERSITY OF CALIFORNIA MUSEUM OF VERTEBRATE ZOOLOGY





·			
•			
		Ŧ	
. 940 N			
•			
		·	

		14.	
	,		
	,		

arnold, J.R. Nevada: Nye Co. 1933



Zovlogy Field Class, (Summer) 1933 Newada: Nye County

arnold, J.

Catalog of specimens

Itinerary

Species accounts

pp.1-18

Pp. 19-58

pp.59 - 97

				dis-	
		911			
					*
, da	15				

For map of localities see notes of

El. Raymond Hall summer 1933

Cataloque

Mammals

Toquima Range, 1 mi. El Tefferson, 7600 Jr., Nye Co., Nevada.

June 29 1933

99.

99. 9 Perognathus parvus col. by E.R. Hall

160-91-24-9-14.9 grams

100

Sierra Nevada Mtns, 38 mi. E Colfax, Californie. Main Highway.

June 27, 1933.

1100. or Sphyrapicus ruber

Toquima Range, 1/2 mi. E. Jefferson, 7750ft., Nyelo, Nevada.

June 29 1933

101. 4 Callospemophilus 1. trepidus 215-75-36-19 mt 82.6 grams

102 9 Sylvilagus M. grangeri ear - 66 - hind foot 94

103 # Eutamias m. pictus 180: - 80 - 29 - 14 - ut 37-6 grams

June 30, 1933

104 8 Perognathus parvus
185-106-26-9 ut 22. 9 parms

105 & Peromysous g. sonoriersis

161-68-20-19 wt 22.9 gams.



Toquima Range, & mi. E Jefferson, Nye Co., Nevada. 7600 ft. elev.

June 29,1933

Spiziella socialis arizonae ut 11. 2 grans Col-ly. F. C. Gale

Toguima Range, imi nE Jefferson, 7650ft. Nye Co., Nevada.

June 30, 1933

107 of Peromysous crinitus col. by F.C. Gale 168-88-20-18 ut 17.9 game.

> Toguima Range, 1/2 mi. I. Jefferson, 7700 H., Nye Co., Nevada.

June 30, 1933

108. 8 Eutamias

205-77-31-117 nt 60.7 game

109. 8 Myotis

90-40-9-12 ut 6.9 grams

July 1, 1933. 110, 9 Microtus mordex 3 " horn ou mm

185-59-22-15 ut 50.6 by ants.

111. 8 microtus mordax

180 - 63 -22 - 15 W 46.9

112. 9 Perognathus parvus

176-100-24-8 ut 19.12 ms.

113 2 Perograthus parrus

197-105-24-9 ut 20.3

July 2, 1933

/ 1114 or Spotted Towher 35.4 grams - losly shit on



Toguima Range, N slope Toguima Mtn., 9400 ft., Nye Co., Nevada. July 3, 1933

115 Extamias m. pictus

183-89-28-15 ut 36.8 yams

116. d'Entamias quadravitatus

202-89-33-18 ut 58.7 grams

20

117 2 Callospermobilus

260-95-37-19 ut 167.1 game

Toquima Rainge, su slope Jefferson, 19000 ft., Nye Co., Nevada

July 2, 1933

118 & Callospermophilus col. by Paul T. Wilson

235-84-37-18 ut 145.8

diseased liver - spotted

Toquina Range, S.W slope Jefferson, 9500ft.
July 7, 1933

119 & Ochotona cd. by F. C. Gale 170-.7-30-23 ut 118.4 zams

> Toguima Range, Imi. Es Jefferson, 7 600 ft., Nye Co., Nevada.

1120. 8 Zenidura macroura marginella

ut 113.6 grams.

VIZI. & Black-headed Grasbeak 47.1 grams



122 <u>Eutamias</u> 195-85-29-15 437,7

Preserved

124 P. iliaca nestling 8.3 game

125, P-iliaca nestling 10.6
127 Water snake with young For Sparrow in month,

127 Water snake with young For Sparrow in month,

128 Passerella iliaca at

129 P. iliaca at 26.9 gams.

Togaima Range, traisw slope Jefferson Peak, 8700 ft., Nye Co., Nov. July 5, 1933.

130. fochotora

168-14 -29-24 ut 140. 9 grams. I with mammary glands developed for living young.

Monitor Valley, 10½ mi E Toquima Mtm., 6900 ft., Nye Co., Nevada. July 7, 1933

131. 9 Microdipodops 152-76-25-9.5 13.22

132 8 Microdipedops 160-88-26-8.5 13.79

733



Monitor Valley, 9 mi. E Toquima Mtn., 7000 ft., Nye Co., Nevada.

July 7, 1933

133. Dipodomys ordii Col. by Pault. Wilson 0-135-40-4

57.72

134 & Dipodomys ordii

Ool. by Paul T. Wilson

275-125-40-15

43.6 8.

135 of Peromysous m.

sonoriensis col. by Paul T. Wilson

155-68-20-19 20.6 9

136 9 Peromyseus M. sonoriensis col. by Paul T. Wilson

23.2 g. 3-14/ = 15 mm

150-64-20-19

Col. by Bul T Wilson

137 9 microdipodeps 160-89-26-9

11.12.

138 9 Perograthus parvus

170-90-24-4.5 W18.4g.

1139 9 Killdeer

ut 85.2 grams

V140 jur Killdeer

ut 18.4 grams.

Tuly 8, 1933

Monitor Valley, 8 mi. E Togaina Mtn., 7100 ft., Mye Co., Nevada.

141. of Perognathus parvus. col. by Ole Lilleland 160-85-23-95 et 125

142. 4 Peromyscus m. sonoriensis col.by ole Lilleland

153-76-20-19 47 23.4

143. & Microtus mordax

col. by ole Lilleland

185-65-21-16 ut 53.4

Sembryo- 3 in right, a inlift 6 mon

•			
		4	
		,	

July 8,1933

144. 9 Peromyscus crinitus col·ly Pauli-Wilson

175-91-20-19 wt 16.29.

Raiston Valley, 15 ± mi. NE Tomopah, 5800 ft., Nye Co., Nevada

Tuly 9, 1933.

145. Peromyseus m. sonoriensis
140-57-20-18

146.07 <u>Pipodomys</u> ordii 220-125-40-13

147. 0 Dipodomys levipes (1.6) W= B. Davis
270-161-44-16

148. 9. Dipodomys levipes (of by wm. B. Davis
290-170-44-17

Hot Creek Range, 8 mi. W Tybo, 6700 ft., Nyf Co., Nevada LTuly 10,1933

149 & Peromyseus truei 177-85-24-26 ut 28.4 g

150. 2 Perognathus parrus
166-86-22-8 ut 14.6 g

151 & Peromyscus crinitus
167-91-21-20 Wt 15.4 g

152 9 Neotorna lopida lopida

alcoholia 231-100-29-28 LT 77. 39

153 Uta (ligan)

		•			
				~	
		,			
			,		

Hot Creek Range, 8mi. W Tybo, 6700 ft., Nye Co., Nevada. Iuly 9, 1933

154. Black-throated Gray Warbler 8.4 grams. V155. 7 Wright Flycatoher col. by Was Davis 11.9 gram, July 10, 1933 156. of Eutamias dorsalis 205-91-32-21 A52.7 g. 157 d' Entamies quadrivitatus 211-95-33-16 \$52.3 9. 1158, of Ash-throated Flycatcher ut 28.19. 159. A Ash-throated Flycatcher colley we Davis ut 28.0 g. July 10, 1933 Het had the mare tylo, 7 miles to 160. & Myotis evotis 63 - 41-10-21-12ti. W.5.g.

161 & Motis 1 emby so mu fully found 96-42-8-14-82 ut 7092

162 & Myotis

60-38-8-14-8L. ut 4.6 game

163 Of spotted Towhere Nov. 92.92. coliby ole billeland ulcoholic
164 8 (2) scel a porus

July 11, 1933. alcoholic scelaporus 165



Monitor Range, Greenmonster Canzon, 7500 ft, Nye Co, Nevada.

July 11,1933

166. 4 Eptesiecus fuseus 1. enly 29 mm

July 12, 1933

167. 9 Peromyseus m. sonoriensis

159-63-20-19 423.42.

168. Preromyseus crinitus

170-90-21-20 416.32

Tuly 12 1933

Fish Spring Valley, 2 mi. N Fish Lake,

Nye Co, Nevada.

July 11, 1933

ut without heart 1777.3 grams

V 191. 07 C. urophasianus 1889.6 g.

Cany on, 1500 ft; Nye Co, Novada

July 12,1933

172 9 Eptesions fuscus

115-52-11-17-9a. 17.3 yama.

V173. 8 Violet-Green swallow 4 15.2. wellowis. Tuly 13, 1933

174. 8 Callospermophelus

221-91-37-18 85.1 gram

175. Song Spanow. 20.3 grams



Monitor Range, Greenmonster Canyon 7500 ft., Nye Co., Nevada. July 13, 1933 176. 0 jur. Wn. Robin ut 68.8 g. d'br. Hammond (1 Thyeatcher ut 11.29 July 14, 1933. 760. ft. 178. 2 Thomony 186-55-25-6 ut 87.9 g. 8600 ft. 9 Eutamias-180-61-29-14 ut 41.9 2. 7500 ft. 9 Eptesicas fascus i embryo - 29 mm. 125-52-11-18.5-9.55 ut 22.29 mm 820. Pt July 15, 1933 181. 8 Octrotona 155-9-23 at 112.6 grams. July 14, 1933 V192. 7 Viveo, un Washing 12.1 grams v183. 9 Audubon War blor 11.19 194. 8: Brewer Sparrow 10.1 grans 185. & Chipping Sparrow 11.3 9. Viveo, bun Wardling wt 11.79

186 9 Junco W 18.8 grand Fish Spring Valley, Fish Lake, 6500/7,

Nye Co, Nevada July 16,1933

187, Circus Hudsonicus ut 298-grand.

188 A. sandwichensis ut 15.3 grand.

			•	
	•			

Fish Spring Valley, Fish Lake, 6500 ft. Nye Co., Nerada: 189. 7 Clangula 16, 1933
Lolby E.R. Hall 750.9

July 18 1933 Hot Creek Valley, 2-10 mi. N Hot Creek, 5900 ft, Nye Co, Nevada:

190. Memidophorus

Fish Spring Valley, Fish Lake, 6500ft. Nye Lo, Nevada:

July 16, 1933 ulcoholic V191. 14 Amphispiza nevedensis ut 11.19

> Hot Creek Valley, 4 mi. W Hot Creek, 5900 ft., Nye Co.,

July 19, 1933 192. of Perenniseus m. senoviensis

162-73-22-18 et 20.7 game

Hot Creek Valley, 2-10 mi. N Hot Creek 5900 ft. Nye Co., Nevada.

July 18,1933

193 Haty rhinus

194, Phrynesoma platyskymos

195. P. platyrhinos

196. P. platyrhinos.



Hot Creek Valley, 2-10mi. N Hot Creek, 5900 Ht, Nye Co., Nevada

July 18, 1933.

197. Phrynosoma platyrhinos

198. P. platyrhinas

199. P. platyrhinos.

Hot Creek Valley, & mi. W Hot Creek, 5900 H., Nye Co., Nevada. July 19,1933

200. Bufo

Ralston Valley, 34mi. E + 1mi. N Tonopah, 5650 ft, Nyelo, Nevada. July 19, 1933 Col. by W.C. Russell

201. 0 Dipodomys deserti 309-185-52-18

202. d' " ordii columbianas 235-130-39-14.

203. 9 " levipes 272-161-43-

204.4 " 266-153-43-15

205. 2 " 244-135-41-15

206. o Onychomys 120-39-20-20

207

Hot Creek Valley, 3½ mi. E Hot Creek, 5650 ft., Nye Co., Nevada. July 20,1933.

207. 9 Microdipodops 152-84-24.5-10.5 12.30

208. & Perognathus nevadensis 123-69-19-75 A 5.89mm.

209. or " 132-72-19-9 N 7.6 gam

. . Armold-1933

Hot Creek Valley, 34 mi. # Hot Creek, 5650 ft, Nye Co, Nevada July 20,1933

210.00 Dipodomys ordis columbianes 242-146-40-15 at 47.2 211. 8 D. levipes 271-158-43-15 A 71.8 212. 8 D. .. 277-164-43-15 A 71.7 game.

Hot Creek Valley, Hot Creek, 5900ft, Ny e l'on Nevada. July 19, 1933

v 214. Blackbird, Brewer - ut, 71.9 game

Hot Creek Range, 4 mi. N Hot Creek, 6400 ft. Nye Co, Nevada: July 21 1933

ut 149. 7 yam 215. 9 Neotomal. lepida 296-131-21-29 216. 9 Neotoma 1. lejoita 298-130-31-30 x130.3 4

218, 9 Peromyseus M. Sonoriensis 164-78-19-18 425.4 i

218. 07 " crinitus 168-91-19-20 ut 17.9 >

219. or n m. sonoriensis 156-71-20-18 ut 24.8

220,07 " 161-70-20-18 ut 18.3

alabelia 272 Scelaporus alabelia 223 Uta



42239

A 19.2 ,

```
N End Reveille Velloy, Old Mill,
6200ft, Nye Co, Nevada.
July 22, 1933
```

```
224. & microdipodope
                   157-81-242-10 172.4 9-
225. 7
                    152-82-23-9 10.7
226. 7
                     150-77-24-11 14.6
227. 3
                     159-78-24.8-10.5 12.1
228.4
                     153-81-24-9.9:11.7
229 07
                     155-82- 24.8-11
    9 Peromyseus m. sonoriensis 146-65-20-18
     or Dipodomys levipes 224-161-42-15- 469.2"
        Railroad Valley, 3 mi. 5 Nyala,
      5600 ft, Nye Co, Nevada.
              July 23, 1933.
 232. 9 Dipodomys levipes 271-159-42-14-461.8
 233. 9 Peromyscas m. sonoriensis 165-66-49-18 720. 3
 234. 57 Perognathus nevadensis 129-69-29-8-41. 6.5
     Wa
     Phrynosoma platy-tinos
      Scelaporus col. by E. R. Hall.
 238.
       Quinn Canyon Mins., Big Creek, 5800
     ft., Nye Co., Nevada.
 239 9 my otis 90-45-8-16-10th
```

240. 2 Perognathus formosus 193-107-25-11.5

1 201-116-25-11.5

11.00

```
(am)
                   July 24, 1933
                                              with 7. 1 grams
 242. 07. Perognothus formosus 184-109-25-11
 243, 9
                                              J19.2 1
                                              ut/127 "
 244. 9 Persony 2045 Crinilus 180-97-19-21
                    - 174-90-19-20
                                            N 12.8 4
 245. 5
 246.9
                                            wx 12.9 "
                   · 160-86-17.5-20
 247.07
                                            J 15.7-"
                    2 166-86-20-20
  248. 9 4
                        147-87-20-20
                                            ut 11.9 "
        Railroad Valley, 95 mi. E New Reveille,
      5100 ft, Nye Con Nevada
                    July 25, 1933
      9 Dipodomys lovipes 266-163-41-15
                                            ut-51.8 gra
      9 Perognethus bevadensis 139-76-19-8
                                            ext 7.3 10
                   col.by O. Lilleland
      9. Dipodomys 18vipes 268-156-42-15
                                            ct 63.1 "
                   col. by O. Lilleland
                                           ut 10.9 4
     of Peromescus
                   M. Sonorensis 131-59-19-18.
       Railroad Valley, 2 mi. NE Nyala, 5100 ft.
       Nye Co, Nevada.
                    July 25, 1933
                                         col. by W. C. Russell
  253. 9 Pipodomys m. levipes 278-166-41-15
                      268-161-42-16
  254. 07
           H N 289. -191-44-16
  25.5 07
         Quimn Canyon Mtns. Burned Corral
      Canyon, 6700 ft, Nye Co., Nevada,
                   July 25, 1933
1256. & Carpodacus cassini (3) it 25.5 grams.
                   Inly 26, 1833
 257. 9 microtus mordax 156-49-20-14 ut 30-6 guan
```



```
Quinn Canyon July 26 (con.)
 258 or Peromyseus truei 183-92-23-27.5 +20.2
 259. 9 " <u>m sonoriensis</u> 152-62-20-19 ut24.9
 260. 8 4 4 4 163-65-19-18 415.1
 261. 9 " 154-69-20-18 ut 20,7
 262. 07 " + 182-64-20-18.6 mt 17.6
 263.7 - 161-72-21-18. 421.5
     Quinn Canyon Mtns. Burned Corral
     Camon, 6700 ft, Nye Co, Nevada:
          July 27, 1933
 264. 07 Eutamias dorsalis 199-94-32-21
                                      ut 46.7
 265 9 " 181-163-32-21
                                      ut 53.6
 266. $ " quadrivitlatus 206-83-31-19
                                     ut 60.6
269. 8 . 1 182-94-23-95
                                      ut 109.9
                                      nt 39.2
                                      1. 23,0
shull only Perognathis parris
                    168-1911-23-10
                                      ut, 16.9
                      141-80-22-9
 271. 9 jun . ..
                                     ut. 10.4
 272. 7 Peromyseus in sonoriensis 149-65-20-20
                                     W. 19.5
        Huly 26, 1933
V 273. of Pipilo m. curtatus
                                W 47.7 grams
                                x. 5.9 4
v 274. Praltriparus m. Blumbeus
     Sceloporus
375.
 776.
 277.
```



Eurn Canyon Mins; Burned Corral Canyon, 6800 ft; Nye Co, Nevada: July 28, 1933.

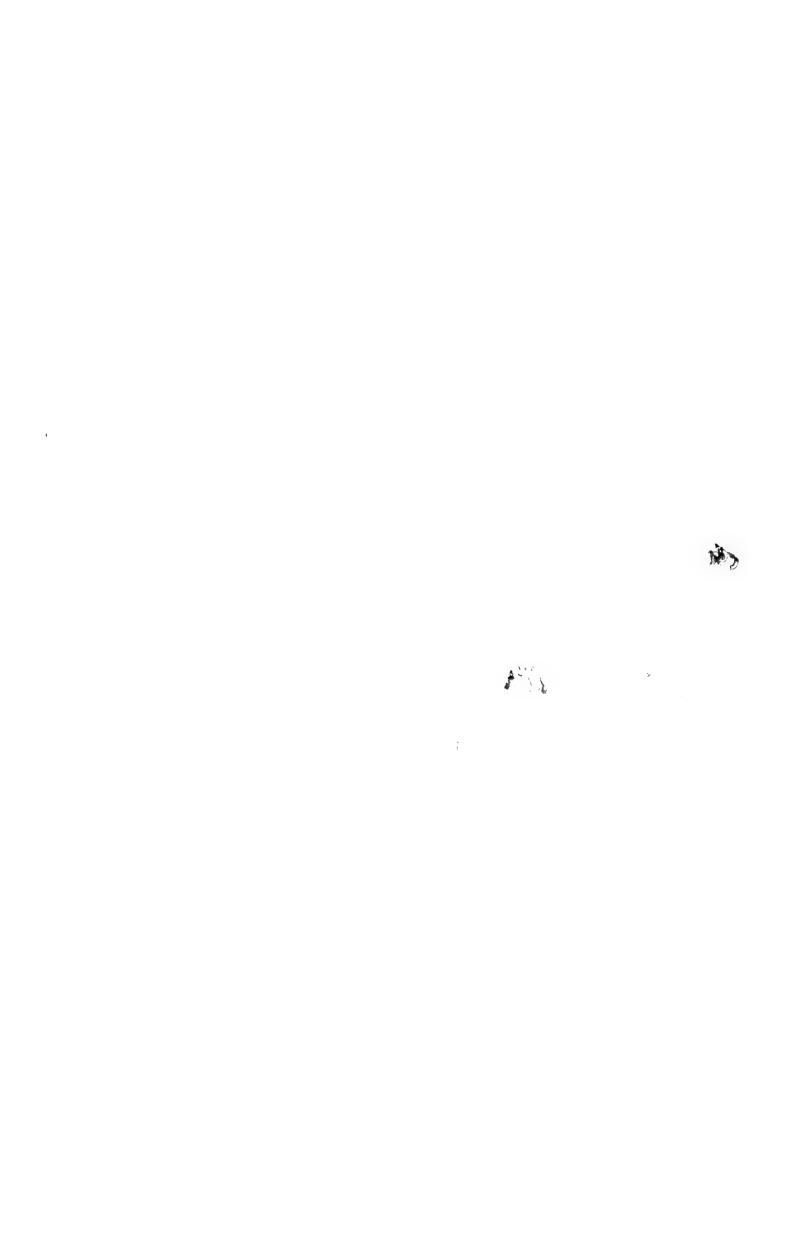
278. 9 Entamias dorsalis 175 (5) -31-21 ut. 59.0 279.9 " 206-91-32-21 A. 46.6 1290 2 Pinanga ludoviciana t. 29.9 Vari. Pipilo m. curtatus ut, 37.4 vara. Parus gumbeli 7.12.3 6700 T., July 28, 1933 283. 7 Carpoda eus cassini. ut, 25.6 V284, & Nucifraga Columbiana ut. 127.4 Quinn langon Mins, Burned Corral Canyon,

Quinn Canyon Mins., Burned Corral Canyon, 6800 ft; Nyelo, Nevada: Tuly 29, 1933.

285. 0 Peromyseus truei 182-88-23-28 ut. 21.6 286. 8 Microtus mordas 152-55-21-14
Reithrodontomys megalotis ut. 25.8 130-69-17-16 ut. 9.5 287. 9 Remanyaces transtors 288. 7 . m. sozoriensis 153-68-69-18 ut. 18.9 289, 9 " (60-63-80-20 ut. 24.9 157-72-81-18 ut. 16.0 290.07 164-68-20-20 wt. 23,1 291. 9 147-68-20-19 ut. 19.6 292. 3 169-71-20-19 20.2 293. 2 n h n 170-69-20- 20 w. 23.9 294.9 A.38.8 g. 1295. 3 Pipilo m. curtatus

V276.8 Dendroica nigrescens

J. 7.9 gan



```
Arnold-1933
```

```
Quinn Canyon Mins, 7 mi. E Nyala,
     7000 ft, Nye Co., Nevada.
          July 30 1933
297, 9 Peromyseus Crinilus 179-91-20-20
                                        ut. 14.6
298. - 156-82-19-20
                                        A. 11.5
299. 7 Feterias quadrivitletus 214-95-32-19
                                        £ 56.8
```

300 07 " 210-94-31-18 at. 57.0 Quinn Canyon Mins, Burned Corral Canyon, 6800 ft. Nye Co, Nev.

3 ke le ton. July 28, 1933

Quinn Canyon Mine, Burned Corral Canyon, ut 37.8 man. 7800 ft, Nye Co, Nevada:

July 29,1933.

v 302, 9 Sitta C. melsoni. ut. 16.9 gam.

Quinn Canyon Mins., Burned Corral Canyon, 6700 ft, NyeCo, Navada. July 30, 1933

303, lot. of 8 Scapiopus jul.

304. 7 Myotis ? you 81-41-7-16-102 W. 5.1

Quinn Canyon Mins, Pmi. B Nyala, 7000 6700 ft, Nye Co., Nevada.

July 31, 1932

175-80-29-15 ut. - 28.4 305. Fatamias in pictus w1, 39.6 181-81-29-16 306. 9 u , "

A. 55.3 215-95-32-21

dorsalis 307.4



Quinn Canyon Mins, 7mi. E Nyala, 6700 ft., Mye Co, Nevada.

July 31, 1933.

V308.

₹309.

9 Polioptila

2 Salpinetes obsoletus

1310. 85 pizella breweri

ut. 5.1

A. 15.7

ut. 11.6

,			

Irno11-1933

General Notes Itinerary

June 29/933

Day before yesterday left Berkeley at 9:15 a.m. an company with wms. Davis, Stephen D. Quant, Francis C. Gale for, Frank W. Gorham, E. Caymond Hall, Ob Tilleland, Ward C. Russell, Paul Wilson. Traveled in 3 motor which, 2 trucks and 1 car, via Carquing bridge to Davis, Sacramento, Roscillo, auburn, Truckee, and Reno. Made overnight camp along main highway 8 miles east of Reno. Left this camp 5:20 Am June 28, and drove via, East Goto, austin, millett, Round antre, to a point East of Jefferson 7600 st. ele East of Sefferson 7600 st. elevations in the Toquima Range, Mye Co., Mevada. Pitched camp at 6:30 P.M. Cesido sevam. While enrotte fune 27 collected a Red bunded Sapurcher 38 miles east of Colfax elec. Ca 6500, notes June 28 (Copied from. can notebook)

Dan 2 commants in Trucker R.



Armold-1933

hune 29,193319 miles east of Reno. 5:40 A.m. San B.C. magpie 26 m. E. Peno. Saw gull in road Calif. or Rive blog 39 miles miles from Reno on Wadword Rd. In a large march & mile north west of Fallow, The following burds were observed. 35 + avocate (probably 1-200) 10 Fied billed grebes. 4 am. eared grebes. 30+ Kellow- headed Blackbirds. 4 Coots 2 Canvas-backed Ducks 5 Killden. 3-10 runhnow dark duch. like ting 3 ? sandpiper ? 5 miles east Fallon saw 1 mal vally Quail. 5/28/33 10 miles east Fallow saw a sage thrasker 100 ft from road in grasewood. 12 mils east Fallon 5 glary I bis noar road. June 29- 5. P.M. set 55 government mice traps and 4 wooden not traps

in dry wash (middle fark of Strass cruck) 1 2 miles East of



June 29, 1933 Jefferson 7700 ff. elevation, nye Co., Monda. Previously the same afternoon shot I Colluspermophila 1 Entamias, and I Sylvilague in same region. E See Catalogue]. From total of 59 traps took only lerognathue pawing and 1 lesomyseur mi somaismis one trap was missing and only 2 others touched. Other member of the party working near water had better result. But up these skins some others, and I chipping sparrow taken by Fr. C. Sale. Hunted is same canyon from 3:30-5 pm + shot one queer Enamias, spins questionalle, and set 54 traps. These were set as follows: 20 in rocks + brush at foot of rockelide, 4 at Enlamas holes j 15 in dry wash, and 10 in sayebush. The first 20 look - he most likely. after supper shot a bat in a cleaning near the stream

•		

Arnold-1433 July1,1933 Visited traps at 6. Am and found a lengmathus parvus and 2 Moroles mordan. The twenty best set yielded only one Perognathus parvus. Put up skins during the morning, hunted for a while after dinner shooting a Lagul Bunting, andubon Warbler, Russet backed (?) Thrush and a young Thrush in nest. Blew out skulls of yeslerday's catch as rest of party has gone up hill hunting for the Party arrived with I deer 2 blue grown and several other specimens. They left a deer to be made of tomorrow. as I way go on this party Dr E. RHall will handle the bird skins: Went with Rusull and Lelland to get Russelli dier. It was on he moul slope of I ogumen Mitin, Toguima Range, 9500 A. Mye Co. Nevada In this same vicinity and slightly lower Icollected

July 3/933 (con)

2 Entamias, I Callospermophilus, and 1 Clarks Muteracker. not for from camp I collected a spotted Towher. Russell collected a marmot and 2 woodpeckers. Tilleland callected a andulon Warbles I chickade I rock Wen. We saw no comies and only 2 grouse, The party arrived in camp with the medt at 4:15 P.m. Comments. Rock When were seen as high as we ascended (9500) while on dis same ridge noe found a nest with 2 half-grown Russett backed (? Thoushes. Clark's Crows were common while funco wery rave. Entamias and Callospermyhilus nere common but wild. a Red-shafted Flicker was sun at really 9 400 ft in a grown of aspen. Remained in camp [Still at

July 3, 1933

first camp I and put up skins most of day. Put up a spetted Touke I Callospermophilus, and I Entamies as well as I comy.

July 4,1933 Celebrated the day by remaining in bed till 6:50 A.M. after the affant hunted up Grangerick Canyon as far as the abandoned ming shaft. Collected 1 Black Readed Grøsbeak or, 1 mourning Dool, and I Entamias m. picture. The mine shaft was examinal for bata but no sign was found. Woodrat sign was abundant. The rock slide on the west-facing slope was sarefully watered and hunted for conies but none such found. Returned to camp at 10:40 km. Left camp again and hunted down stram near the road. Shot one adult female Callospermophilus on rock slid, Crossed stream and crossed plateau near sleam, skot I Callespermyhilus, and 2 Entamines. Spent afternoons and evening pulling up shins and writing notes "

July 5,1933 Left camp at 5 A.M. traveling up first morth branch of lefferson Creik. The party composed of Hall. ् क्षेत्र frnold-1933

July 5, 1933 (cons

Wilson, Rurant, and myself was primarily interested in comes. The party went up to 8700 feet along this creek and then seperated to hunt conies on the rock slides. The party secured 12 specimens and returned the morning I saw 4-5 comes but none were seen after 9:15 acthough the Durant collected one at about 10: Am. one specimen was seen with hay in its mouth. one of my specimens was an adult semale suchling young. During the morning several species of birds were seen. a Tolmie Warbler was seen in willow thickets near the stream a Trusset-backed Thush was heard, and many brolet - green swallows were seen circling around - che cliffs, probably with nest. The meadows, small, along It stream were sovered anid Castellega, Sio, and

grass. Finan pine and funion

,			
	•		

Armold-1933

Tuly 5, 1933

were on the hillsides while willow, aspen, and alder lined the stream banks. Rose was the bush of the stream while artemisia was the " sage brush" of the side hill and flat. The comies were found on rock slides will occasions artemesia clumps. In she afternoon Two fox sparrows, nest and young were taken near samp. See Species accounts, Skins were prepared of the adults while alcoholie specimen were made of the young and attaching water make.

July 6, 1933

Broke camp at location I mile east of Jefferson, my Co., morada at 9 Am today. The party drave to Tonopal by way Round metro and San antone thru Big Smoky vally. Time was taken at Tonopal to receive and send mail, eat lunch check show and shock the autortunks. From Tonopal the party proceeded

•.			•
		*	

July 6,

north east to Belmont and then north to a point 9 miles east of Int. Toguina and made camp at an abandond stone house at 7000 ft. elevation. During the rid from Jefferson to Tonapel but little of interest was noted except jacksellit and a few common birds, Sand dunes and geological journations wer also of interest. During to wide from Tonapal Tospresent samp reveral items wer noted. Cliff swallow were noted nesting at Belment. Brewer brankbird wer seen at Belwort and around his camp. Three Turkey Vultures wor seen north east of Belmont but my altempt at collection garles. Trying, Cotton-land, and jack-robbits were seen but only the jack in number, around this camp printy rabbits are While placing 60 miles traps on the flat 15 miles from this camp pigmy rabbits

were seen commonly, one march-

			·	
,				
			·	,

July 6 (con)

hank was seen flying low over the say bound, one sage through, one sage through, one sage through, and I raveno. The traps were placed around a sandy knowl. Sage hen sign was common. At the stone house a Say Phoele nest was found incide on a cross brace, there were a young, fully fearly young in the nest. Chipmunks were seen winning under the worker stone,

July 7.

Riched up traps between 4.5 Am

this morning; a living and a dead

microdipodops comprised the cative
catch, others were more farlingto
in other regions. Kargaroo with

Peromynus in anoniemis, Recelhodonlong
Entamias, Microbis, and office way
taken by he told party, The

morning of first partoph afternoon

were spent putting up him.

Collected adult femal and one

downy tallees from meadow and

put trip as skys, Found several

meadowlarks and one feathers

July 7, 1833

Juvenile meadowlask. Late in afternoon set 49

traps for minutes in the

wet meadon near camp,

July 8, 1933 Picked up traps at 4: 45 and drew a blank! not a

dring out of 48 traps! From about

100 traps set by Galo and

Gorham 2 microtos and

3 on 4 min was taken from

Aus same meadow

E Gale proble Gorham

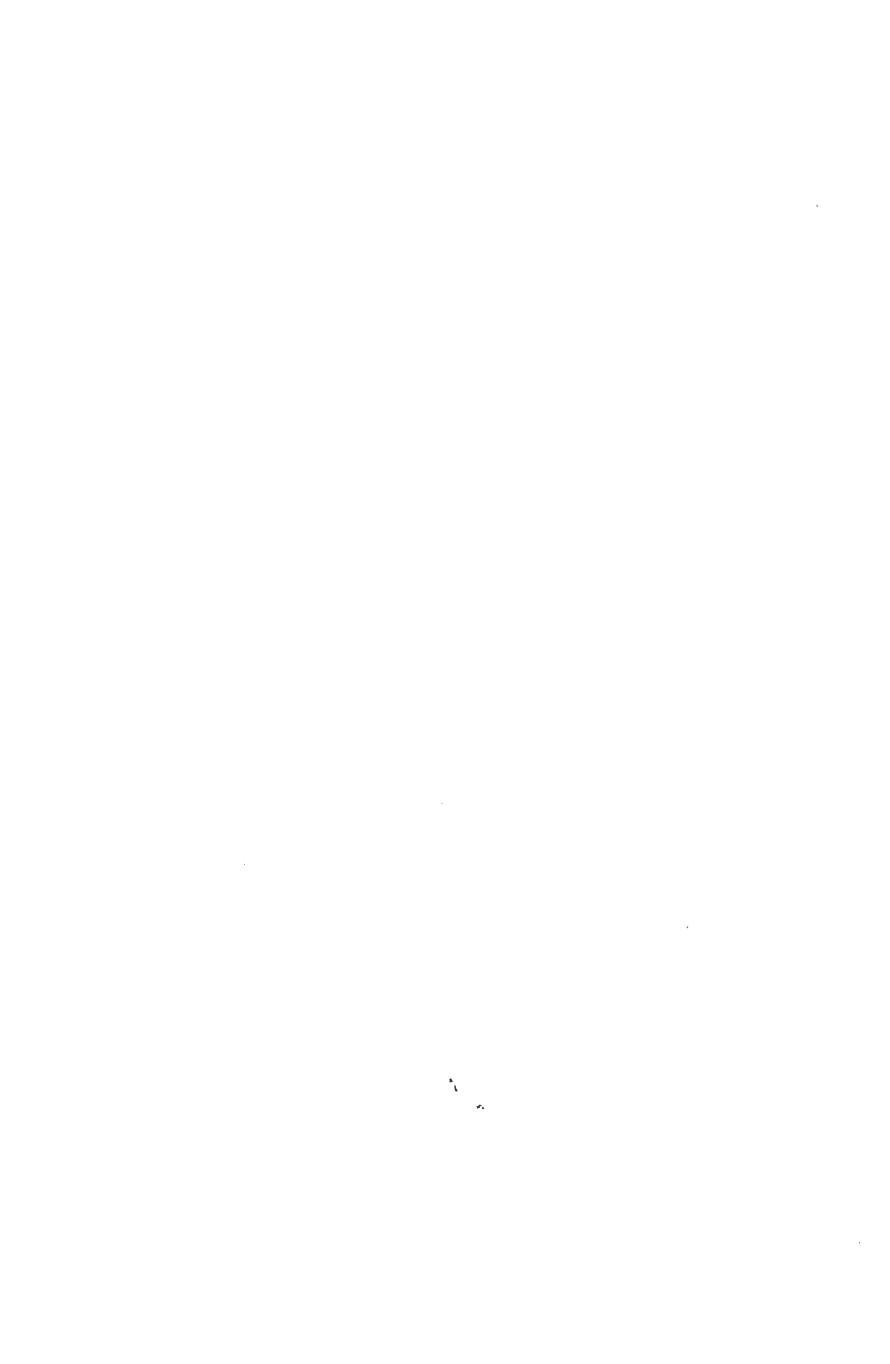
During the morning put up 3 skins for Ole Lillant. While in meadow saw & your

sage hers, 2 young medoulaks,

and in the distance a fraing

at 2: 45 P.m looke camp Belmort to Tonopah. Looke!

ver some sand dunes on



July 9,

Arnold-1933

(con)

	s	
		,
		•
	,	
		•

July 9, (con/

Shrife (Lanius) and 2 Black & white Warblers, sollecting and of the later.

During the evening Ward Rusself collected a sumber of bats,

Ituly 10,

Went over the line of trops set out and took I Perompous crimitus, 1 P. truei, 1 Perognathus parous and I neotoma lepida lepida from the sies traps. The nat traps set for chipmunts were untouched but at 11:30 Q. m. took / autama dorsolis and I E. quadrolate from these. The dousalis was taken under a dead Piñon pins while he E. quadrivitatus was taken on the floor of the canyon was a live finan. Locker collecters found more E. donsales on the rocky slope. too I. While picking up haps many lizardo [Uta + Scelapones] were seen and I collected [tha].

During he day there 6 manually 1 Black - Thronty Gray Workly along refered to as "Black + while T, I wight

Flycatchers were made up.

		up.	
	V.		
	•		
•			
	•		

Arn 41-1933

Tuly 10,

These ask-throated Flyeateken, a mal + femal, were taken near camp, probably a nesting pair.

During the evening from 7:30 to about 9, 5 members of the party W. Russell, Fr. Gal, Fr. Gorlan S. Durant and f. armeld marked up to a spot 34 miles from camp known locally as Italian Springs to called bato. At this paint, are 2 mate tanks and a a clearing. many bats were seen flying over the tanks
to get water and at total of were
25 were taken. many shot were not found. all wer myster and a few mysters evolution wer

Tuly 11, 1933

The first portion of the maning was spent searching a for bate and a few was found. During the morning after this I put up 3 mystis skeletonized I spotted Touler and put up I higard. While hunting dead bats 3

		•
	•	

Tuly 11,1933

ligards, were taken aline by

Hi. Sorkam + myself. after

dinner everything was packed

and them, started up Frish Creek

Valley to find a new collecting

location. Five miles beyond

Frish Lake two male Sagdene

view secured. Dr. Hall also took

one,

Jate in the afternoon camp

Late in the afternoon camp was pitched in the monitor Range Greenmoneter canyon 7500 ft. Mye Co. nevata. The camp was about 4 mile about the ranch between 2 small hay patches (alfafa). The Indian, proved a fine hort.

my hap line consisted of 40 traps in and among the rocks near camp, In a case on deep crack much sign was found of Woodrate mice and bate. The "sign" deligning of and late on the flow in places, while the brand, dark to brown molanes appearing union piles of the spectome

	,		

Arm old. 193 >

July 11

ruere seen over the ruells. In some places this was 12 - 16 inches thick + 2 feet down the slope. This public indical a dong occupancy by nestoma. Tigards ner very soundant in the rocks.

at 7:35 the bat flight started most of the bala appearing first from the rock pil, The bats were mostly Eptericus furus, although there were a few Ladaida maxicana. I collected

From the trap line of 40 traps 4 Perompeus m. sonowing and 4 Le crimites were taken and no neotoma probably because the neotoma were wary as fresh sign was abundant. The dag une spent pulling up bats Geromysus, I fagulia burnling (col. During the evening more buts were taken and notes unites, The following brids was seen during the day: Laguli

July 12,

	•		
		ø	
•			
			•

July 12.

Stains woodparter, - Swallow Woodhoure fay, Western Robin For Sparrow (col. by W. Russell) and chipping sparrow.

Tuly 13,

Hunted over rocky ledges and up stream bank and along upper meadow for birds. Fook I song sparrow I war Robin Juvenilo, I Tolmie Warbler and Farmond? They catched Pairs that I have motoma sign was chicked so that alwing the next night the human odor would be less. [D: AM)

at 11:30 took 4 Callogreemophilas

and at 4: p.m. took 2 mos

Callospermophilus from cher

traps. apparently the allo's and and he care nather than the Molome.

In the afternoon juilty

of the Tolmie Warbler, Fale

JRA7

	,			
	•			•
			,	
		•		
		•		\

July 13 (con) in the afternoon set 20 net traps (wooden) for meatons. This time I covered cover and rocky slope in nearly every laby place. Im some places the dark had molarable series piles were 12-14 inher high and had runn garaning down hill for 2-3 ft.

Ligitudes of the 2-3 inches

During the evening Ishot one bat, a Big Brown,

July 14, 933.

found just 2 specimens, and mother motoma lipida lepida, and the other motoma cinera, These specimens were taken within 15 feet of each other and about 20 feet up the slope from the base. These were few droppings and no ruins pilus mean. Roch work and dead bruch work work not within 10 fet of the trap, at 7:15 Ob Libeland and confecting trip toward the collecting trip toward the

	,			
			٠	
				-
		-		

July 14 (con) put up to Frank W. Yorkam and Wand C. Russell.

and would C. Russell.

Or were were the chird frompost to go toward the ridge certain things, were not to be collected.

Dear had been studied and collected by he first party who meadows. May interest was chiefly birds while filleland's was general.

I collected the first bird a Tolmis warbhed 7:30 in the

Tolonis warber at 7:30 in the rosebuches at the meadow, at the supper end of the meadow we put out a zopher trop apiece and followed up the steam, at 8:25 shot a un warbling Viceo besid the steam in willows and now busher. There was higher warbling in the aspens higher up the steam, at 10:1.1.10

saw many violet - green swallows flying around the willows + rocky alists also

There flew alose enough to



July 14, 1932 have freeted. They were nesting in overhung crevises on the aliff facing 5: w. . At 11:15 in the second large meadon, while working them an aspenthicket head a noise and prening them buch san 3 young magnits. Took I doed - 2 living young to camp. These were land enough to my hop, and fly a slight and. Stelunch in an aspen grove at the base of the mita. Itself. after lunch amid a slight sprinkle of rain hike I them the aspens trying to locate senging birds. Hand but could not collect. Tilleland climbed to the ridge, 10,200, to colded, while I then would account the fact at about 9000- 9000 to collect. among the Inter makozang (occapy) on the ridge to the month of collected funco, chichada, chipping spanon and, audubon warbler, while on the flat and the artemeria & collected 2 Brewer Sparrows, on the

/				
,				
•				
•				

Armold-1933

July 14, 1933 return trip I collected one Entamies in pictus and , Callosperin ophilus. During the evening I collected one bat.

Summany: Tolinie Warblus were replaced by western Warbling Vivo as the altitude became quater. nestoma sign was abundant the whole journey, particularly on the ME slope. Clark's muteracher are less abundant how than they were near mt. Jefferson, Toquim Range, alchough shey appear her at a love range. Woodhouse jags are not very common.

Inly 15,1933

Left early to hunt comes on rock slide sy the caryon. W. C. Russell, O. Lillaland, and myself. I collect I long and W. C. Russell

3, a total of 4 for the party. Paturnel

to camp by 9:15 A.M. Put

up shine taken the day before

but rain plus the comp

Runting trip combined to reduce

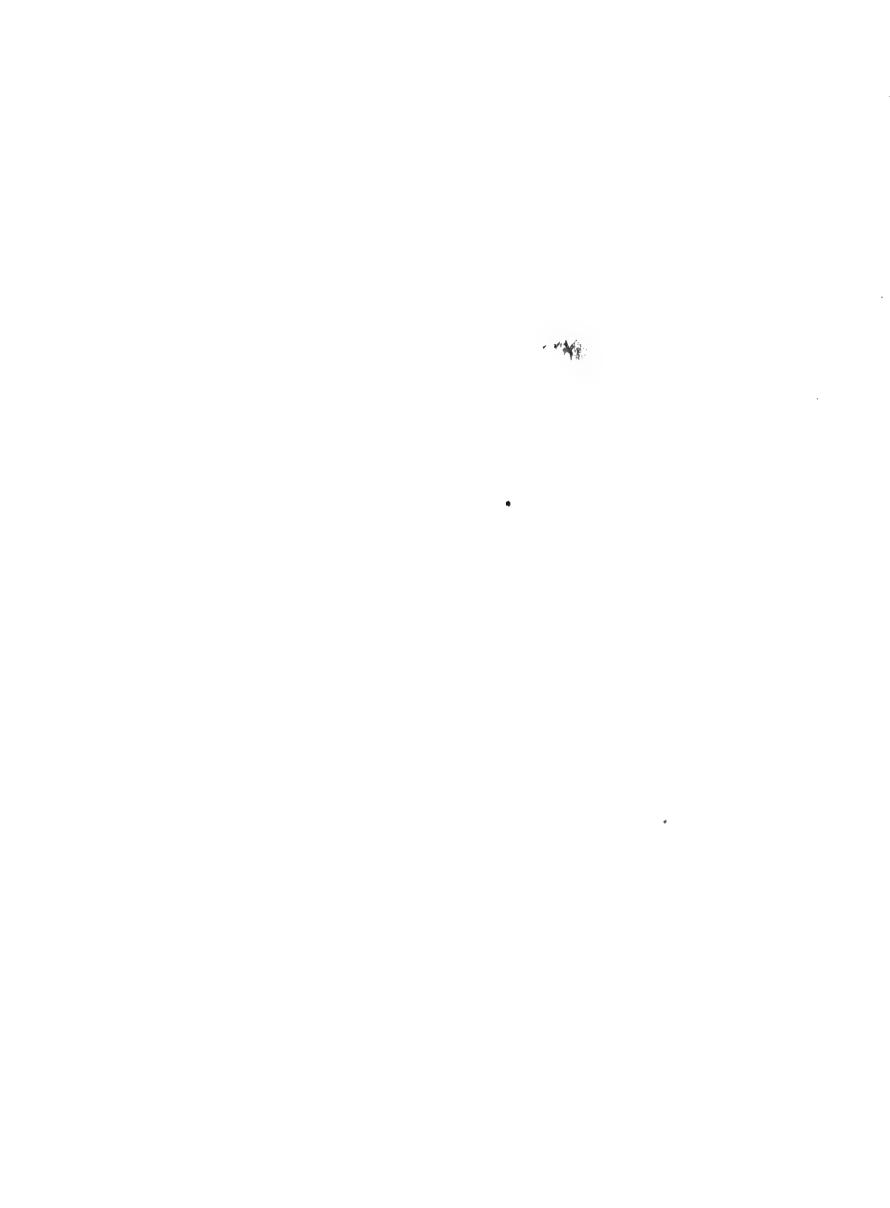
Red-shafted Theter were head

our 9900 ft.

	-		
		•	

Armold-1933

(am),



9 timesary Arnold-1433 July 16 (con) with Dr. Hall to set traps on the flat. Let twenty mice traps at a location in Fish Care Vally 4 miles north of Fish Lake, 6600 ft. Try Co. nevada. Set zoplen traps! mil north y de lake, and set 8 mia, mad, and 2 steel traps I sail from it lake non an abandoned house + corral. Between the gopen set and the house saw I freging rabbit and just beyond the house saw 2 sage hen + 2 young dage hem. Ser Species acet. Drove out on lake and the two of us sollected de following birds: Calif. Bull, 1, 3 Goldeneye, 1., yellow- Lund 1 Blackbirt, you. Brewn blackbirt 41, Wilson Philasope, 2, March hank, 1. Savannel Sparrow, 2., and 1 your say framon. We saw 1 Tilve heron but ware unable to collect. a set of Murala Red Winger B.B. eggs was The mark was faily aling



Itinerary

Arnold 1933

Jeon /

Brever, Red. winger, and yeller buld.

phalarages & orthers woo common,

Howard hear further study.

Tuly 17,

Moved camp picking up traps
enrouts. The catch consists of one
golor, kangaroo nats, Peromyour

m. sononenio, and Rentwodontomyo.
We drove down Fish Creek Valley
as for as the Stot Spring road
and drove to Hot Creek via Pages
Ranch. Camp was made in
Hot Creek Range, 4 mi. N Hot Creek,
6400 ft. Ny e Co., Nevada. The
road from Camp to camp was
muddy in many places because
of rain.
Trans were set out on

Traps men set out on the flat 4 mile nouth Hat Creek, 5900 ft., and at 6 2 miles nouth also at 5900 ft.

Camp und made in 3 abandons

buch Kilm.

Took 4 Pergnachus newstensis from 60 traps, most of them tops) being set of by rain. 24 hound toods (Phrynosoma platy 1-himas)

July 18,



Armold-1933

July 18 Con!

and 3 Lizardo, 2 Legand and , whip. tailed, wer Taken near the road. De species notes en phynosome, Spent day putting up birds taken July 16 at Fish Lake. That afternoon put out 10 trape in meadow is mil west of Hot Cuck, 10 on hillside at name spots and 15 on the road route of for the placing of lings. From the trape took 1 35 40 July 19, 1933 from the meadow and ! P. m. sonovienie man the Ofot Creek rank, nothing was taken south of the reach. The poor catch was probably due both to the weather to the poor and The morning now spect laking care of these pecunis & repliles taken the sprevious day. While taking up trajer - the collowing Louds word seen: Brewn Blackbirds, un King Gines English Spanows, and tage Thranken.

an Oriol thought to be

the arigina Stated Owil was

-	

July 19, 1933 seen but could not be collected. (am) The afternoon was spent pulling up specimens taken by W. C. Russel + F. W. Gorham on the Ralston Valley, 34 mi. E & 1 mi. n. of Tonapah. This is approximately 5 miles south of Clarks Station, a local name. I put up Depodono desoiti D. ordis Columbiano D. levyes, and Onychonyo. Lot in the agternoon I set 74 traps at a location in to vally 34 miles east of Hot Creek. after setting laps collected 1 Brenor Blackbird thinking it entre Conge. Probably du to peculia contidion of molt. while diving - up the canyon to camp san a group of 6-8 jags probably Woodhouse, 2 doves I say phoele, and I kinglind. Sport evening in camp.

July 20,

Caught 4 Perognathus nevadenis 1 misuraprodops, 1 Depodomys ordis Columbianos +3 D Cevipes in traps. Cought several "tailsonly" and had my trapa not.

• *"*\$!

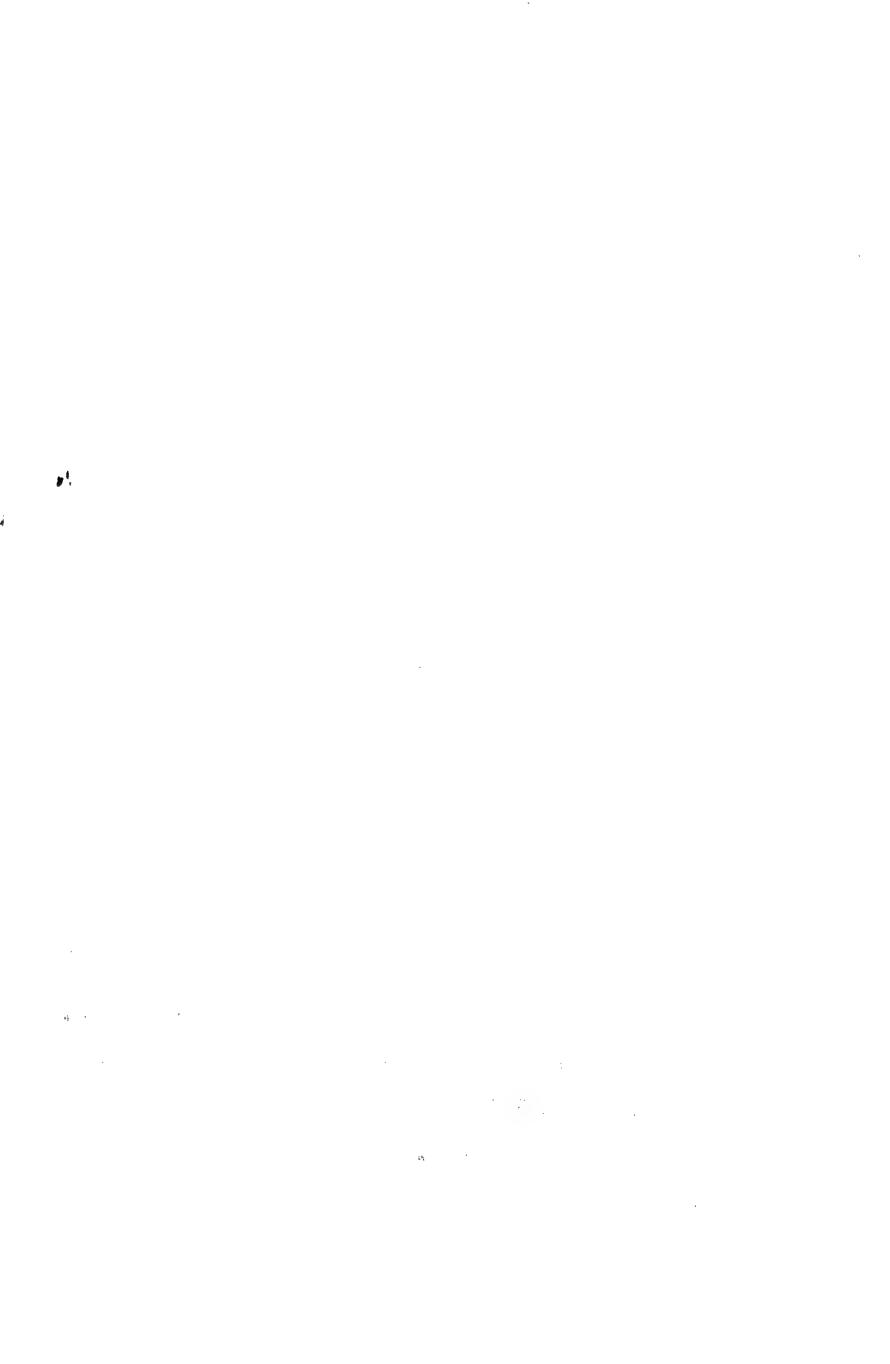
*

.

.

(Con)

July 20,1933 off. a more carefully set Trop-line would cottel many more specimens. While returning from the trop. line saw an adult Red-tailed Hank, several Knighting and a un mockinghist. During day put up specimens and motes. En late afternoon put out traps, 10 wooden rat and 30 wooder mice traps. Oll traps were set on the east side while stream, from camp to the burned area about 3/ mile repatreon. Some ver set in the rocks, some under pine trees, and some on ho steam lank for shrewspry at about 9:30 p. m. 5 Runel Hall, Pavis, Lellerand, and armed, drove a macked 14 miles up the canyon to hunt balo in 3 kilm in which bat sign had been kond in the afternoon. Leven bala mere taken by mans of blashlight, gun, and by



Tuly 20,1933 mts. Brown late, E. fureus,

(Com! and Myolis volans interior way
taken. The brown bats were
carrying fully funed young
the party returned at 11:30

P. m. one ligar, uta, was
baken.

July 21,1933

From 40 trops took 5 melongs 3 Peromyseus m sononenis, 3 P. crimitus, I lost 3 traps one a wooden sat-trap wired down! The motoma & P. crimitus were taken among the rocks while P. m. sonovenis were taken near-che water in show sets. During the walk un Robins, Spotter Toukee of Jay were seen. after noon can was changed. We drove via Hot week, and Warm Springs to a location known as Old mill. This mill is an abandoned are crusher and the exact location is noul end of Reveille Vally, Old mill, 6200 ft., My Co., Mevada. Traps were set out in all directions

	,	

July 21, 1933.

from the Old mill itself. In Hall, O. Lilleland, and myself set traps down the road to Reveille. I set 66 traps to the south of the road. at old mile Russell shot a Wilson Phaleupe and we som several Frighthauly 2 nm morhingbird several old + many young Rock Wung, and I hought a limits (?). De Stall sava strike. 2nd at warm Springs, as at several other places, a captive mockingbird me hed as a songetes. The mockingbuds however as very wild in the Sunh or are hard to approach!

Tuly 22,

Thom he 66 traps took

2 Dipodomys lunipes, 1 Peromysus

nere token on the flat, in spit

of numerous con part or transh, chan

in a sandy wach on which

expected a boarry hand. The

specimens were sered, weight

drawn, and waged in oil paper of

met sache. after this was

taken care of camp was

Armold 1933

Tuly 22, 1930 again on the most. We took the road labeled Reveille and drove to de Reveille Inter, We attempted to find new Reveille in these outer but facility to find the location. We then drove via anowhead, Roulod Valley, to myala. after securing information as to water here, we draw to a con-carp on Big Quek. Mad camp here at about 12 pm. Had dinner and started work on specimens at 3. p.m. Lut up 6 mannes i 2 reptiles. Put out 30 traps, as had may spenien in camp to do, at a location 14 mile nouth of here on the slope leading out into the vally. The exact location of camp. is Quinn Cayon Inting Big Creek, 5700 ft, Nye Co. Navada. at supper at 8: p.m.

Tuly 23, '33

Riched up 30 traps and took Dipodomys & columbianus, I Peromyseus m. sonoviensis, and , Perognacher mordonio, Hu at This camp have seen many

9 timerary

Aunold-1933

Tuly 23, 1933, (Con)

doves, 2 Sparion Franks, several was kinglands, a limite and nexts of onioles. Spent marriage pulling up while and corrections which, putting up reptile and corrections notes. During the morning a shift spent some tains on a true rear the text. A Brever Blackbird form

from camp and set 50 traps among rocks and east sick of Big Creek at an altitude of 5800 ft. Saw sage spaceword lat. Collected one myotis on atum, saw several who beto.

In return to camp now told of a snake (unnew) shad had succeed to the specimen (mix) left on the table. Ce trap bailed with a dead Peromysus was set for the snake.

Tuly 24/933

traps, Caught 6 feromathus
formussus, and 13 ferompeus crimities.
They seemed to be found in



Tuly 24,193,2 (con)

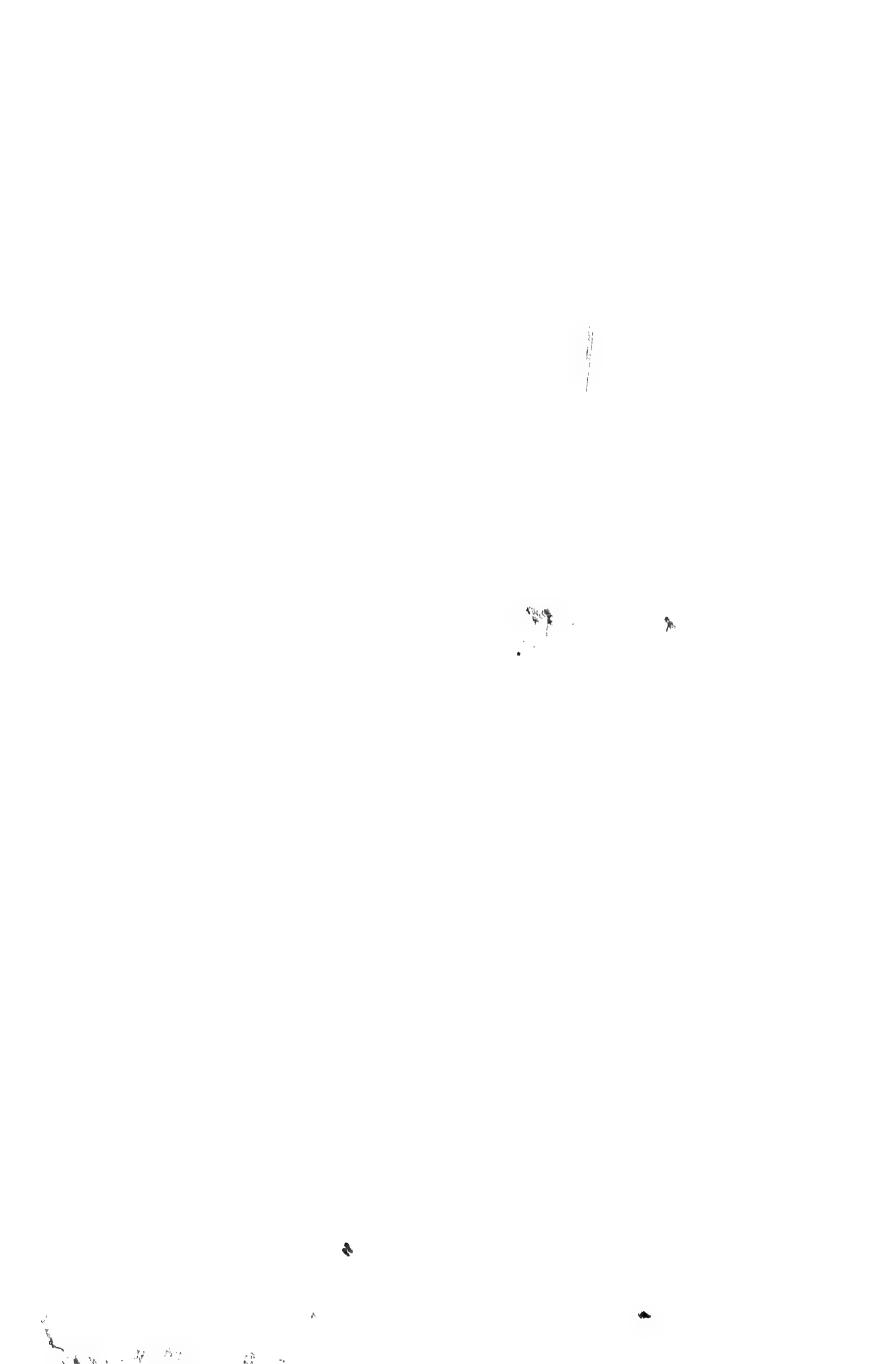
The same ecologic miche as shy were caught within , a feet of cach others Spent most of morning and specimens. Left at 4:30 mil Dr Hall - O. Lilleland to trap at On Lake. arrived at dry lake - found no traps (except 40 in one coat). Probably my foult as I gardened the traps together (230) and placed them with other material beside the car never looked to see if set 15 traps among the dune to the North of the Estiphy The outstanding

ily 25, 1933

Perognather revolution, and microlindame palities: 6 traps were apung and empty. wereynhow tail marks induly an abundance of aminal life.

O. tilleland carrott a Drychoma, a longer tailed spains, while Dr.

24ad & Lilleland both court much proper



July 25,19 33 (Con)

The material was wrapped in orled paper and wet sachs. We then drove to mysla where we jained the party, now moving toward our new camp. This new camp is in the Zuinn Canyon milns, Burned Consl Canyon, 6780 St. elevation, sye lo, sevada. The trees are timo piro, moto, makogory, Holly Grape, the showle, artimeria, and others.

Spent early afternoon skinning specimens and later put out 60 traps. a keavy rain occured washing bait away & setting off some traps. There were resit before dark, Rained in evening I made a net camp! Wrote notes & west to bed.

July 26/1930 From the 60 traps tooks 1 Microtus mordax, 1 Peromysous truet, and 12 Peromyscus m. sonovienis. Spert morning putting up there and a Cassin Purple Finch taken last night. Tate in the afternoon maches repa nanow, rocky campon

July 26,1933 (con

to set traps. Let 40 in this canyon and onthe hilland about. Law one Callos sermophilus and two Entamias. Could not deturning As species. Hard seved jays, Ceturnet to amp und marked reporteam. took , Spotted Towher, and , Bush-Et. Saw nighthanks, jays, and heard a chickude . Would estimat about 25 South Tits, 15 nighthanks, 5 jags, 4 Toukes, ind 4 purple Fund in this gard of the carryon. Let 10 more traps beside the stream. Great a hummingbut, but could not sel it. Also san a clarks Muturckey. From the 10 traps mean the

July 27,1933

spring took 6 Peromyoun m sonoismine.

From 2 in the flat took two

Perognathus panus. From the
others in the carmon took 2

Bromyous Truei, I Callospermonthus,
and 6 Peromyous m. sonoismis.

Walked repticaryon and shot

1 Estamias quadinitiatus, and two

•	
e or the second	
*	
,	

Iuly 27, 1933

Entamus dorsolis. Also shot a meter chickady. Jaw 3 point buch dur. The dominate the was the pixon pin although Concocapus was common. a few yellow and Timber piner nere seen. on the grand a low philos was general. The altitude here I would estimate to be around 7800-8000 ft alove see lived. Set 15 traps in the sanger La chipmuchs Spent much of kayin can skinning specimens. In evening shot belo, a species of mystio, as her blen over the small resuring near

July 29, 1933

caught nothing in chipmurk
sets. Shot 2 Entamines donadis,
one Pirange budonica one Pipers
m. curtates and one flame gambeli.
Spent morning putting up
skins.

cassini and one muitage columning put beside camp. Washed reported branch of Brenned



Tuly 28, 1933 (Con) Const Canyon about 34 mil to

set traps, Law adult Red-tailed

Hank mchickedes, Woodhover Jugo and

Buil Tito. The red-tailed hank

was heard giving his characteristes

Cree! severel times even before

if was seen. It circled repeating
this not. Two spotted Toulars
and one Black-through Inay Worth

were collected. 43 traps were

set for woodrate, Peromysms

arimitus and microtus.

July 29,1933

following specimens: 2 Reicherdontomys, I Beromy us true, I mirrotes
mordan, and 18 Peromyours me
sonovenis. Shot male BlackThroated tastey Gray Warbler.
Spent most of day pulling
up skins. Put out traps acron
vally from earp, principally for
nextons. igent evening in

July 30,

Took 2 Berongians Crimites and 4 Pm. sonoriumis from Traps. Shot , E. Morrario and 2 5 quadrinitales.



Con.

ily 30,1933 Shot a violet- green smallow and som a whit throated swift. The caves in which nutoma sign mas abundant yieldet no reolone but instead cought Recomposes crimities. The canyon below was very monor with high cliffs. The mouth of he canyon was grown to Jumper and Pine Pine while The super cannor sid mes covered with a muture of whit Ting Proton Pine, and Lember Ping. The south-east slope mas more heavily set to Fir which fir was some on the prosit slope. Beneath he fire (6 in to off in dia.) Chaemabatia (?) and maple mingled with the Cerescapus. The rest of the day was spert in samp preparing skins. In evening that bate. The party took several species; myolis evolis, mystis volas interior, a myotis Tadarida mericana, anthrozon polidus, and mycleus & sinera.

				. 1
				Ş
•				

Timeran

Arnold-1933

July 31,1933 Spent first portion of maning hunting wied um Davis in a Dangon leading from The main skerry Creek Pars Cangon, The location mus cited as 7 mi. E. myala My Co, nevada. Collected Entamines dorsalis, Entermas marches, Pipelo m custatus, Spizella breven, Popioptila you, Salpindes obsolter, and Carpodam carini. San Citellus grammun mas escaped in rocks. um Davis took a Sylvilage n. grangeri and a Green tail Toucher. I observed The Tangers, Black - headed Grobeals Woodhows Jago, Red-shafted Thishers and several order yes.

Spent nest of day in camp. If camp at 8:30 for California. Hag, Drove via Calloways Ranch (Curant

P.O.), Ducknote, Envha, austin,

and Bast Gat To Facton. Camped for night between Falton and Sparks, on ride made a

for observations, Ravens were

sun several trines between mang blankbirds were seen

	•	
•		

	•	

449 31932 (con.

Joology at 6:40 P.M.

During last by of journey
made few observations. However,
just before reaching Dison some
50-60 crows gardent in pasting
basid hughing. The contracting
of California's inter wich those
of movada took my attention
an the return.

August 2 1933
John R. Cernold.

	·	
	•	
		·

nold-1933

myotis

Tune 30/833

4109

Toggima Range, 12 mi. E Jefferson,
7700 ft. Nye Co, Nevada: during the
evening, about 7:30, this specimen
was taken while flying over
the road hading up the campon
beyond ona camp. The above
coption is probably in error of
50 ft in allitude as it is near
7650 than 7700. Several bate
were seen during the evening
and Francis Gale Collected a
second specimen, apparently idented

with inine. The specimen was

Tuly 10,1833

Hot Creek Range, & mi. W Tybo, 6700ft, Nye Co. Nevada; during the wening from 7:30 to 9 pm.

5 members of the party W. Rumbl, of. Italo Fr. Gollected bata over a water tank hnown locally as Italian totale, Some 25 bats were secured attehough many were not found. Several species of myotic, including m. Chote, were takes. Jh Arnold nos 160,161, +162.

Myotis

July 28, 1933

Quinn Canyon Mtns., Big Creek, 5800 At Tye Co, Nevada: shot a mydin as it flow slowly up the canyon among to poplar. The canyon was manon malled & to boto flow low or sign slowly. These bots did not by nearly as fail as the mystic when at Italian Springs. (Jpa no. 239.) July 3 9, 1933 Quinn Canyon miting Burned Corral Canyon, 6200 Sty my Co., Mevada: collected a small myster, species unknown a miles questionell. JRa. no. 3045,

		•
	,	
		·

Eptesions fuscus

July 11,1933 Monitor Range, Greenmonster Campon 7500 ft. Nye Co. Nevada: ut 7:35 p.m. a flight of bats started, most of which proved to be this species. The bats are slower flyers than myolis and fly a straighter sourse. All appeared to come from The rocky point and the cavern there although I found no buts there in the afternoon. a spourer Collected contained a fully found embyo 29 man. long. The flight started a little earlier as it was cloudy. This

July 12.

July 14

time the new a few mexican free - tacked bats in the flight . They are mor difficult to Ril. The flight started a 7: P.m. This evening but fewer lass appeared. Probably because they are les y chen! a bot taken contained I emeryo 29 mm long. a capture lot gave birch to a young male but today.



Armold-1933

Callos permophilus Intripid us

June 29,1933

Toguima Range, 15 mi. E Jefferson, 7750 ft., Nye Co., Merada: shot one specimen arrong the rocks and saw one other.

Tuly 2, 1933

Toguima Range, N. Slope Toguima M.Tn., 9400 ft. Nxe Co, Nevada: shot one specimen in jumble of big rocks on east facing sod slope, autamias neu com in the same rocks. The growth was sayabuch small willow and nearly a grove of aspen. During a trip from camp at 7600 to this altitude they were Commonly seen scamping the boken rocks or rocky slopes.

July 4,1933 Toquima Range, Imi. E Jefferson 7600 ft. Dre Co, Nevada: this species vas seen guil often today, this morning, in a short hike near camp, an adult femal and an immatus female were collected. Several others were seen. as mentioned above both autamias and This species were seen in-the

	,		
		•	

Callospermophilus 1. tripidus

July 4/83

group of rocks, at one moment 2 Entamias and 1 Callospermophila ran from me into one clump of sagebruch.

July 11, 1933

Hot Creek Range 8 mi. W Tybo, 6700 ft, Mye Co, Nevada: This location was marked by the along of this species. I saw none and I believe no one saw any.

July 16,1933 Monitor Range, Greenmonster Canyon 7500 ft, Nye Co, Nevada: in the region surrounding his camp this species is very common. July 13, in this carryon, in a pil of rocks I cought 6 spesimen in 2 home with 10 traps. There specimen ner taken of any who covert with the possibly there have repeated the nestoma. Of these specimens 5 were young +1 long femal. In many any directions were comed by fourth up as for an 9 000 ft. to my knowledge.

		,

Callospermophilus 1. tripidus

July 21,1933 Hot Creek Range, 4mi. N Hot Creek, 6400 ft. Nye Co, Nevada: sam nor collected more of this species at this location, ammagreemophilus and Entamias donalis seems to replace it. This seemed truy of the Foot Creek Range, & mi. N. of Tylo, 6700 ft., Nye Co., Nevada. It may be to altitude on other conditions, at bart hey was about: July 31, 1933 Quinn Canyon Metro; Burned Carral Jangon, 6700 ft, Trye Con Frenche; artil This species was taken a shot distany about comp more was found new camp, andthey ner not common even in the other canyons, & E. donalis was common here and seemed to replace A Callogamphilus.

,			

Eutamias m. pictus

une 29,1933

Toquima Range, 15 mi. E. Jefferson 7750 st., Nye Co. Nevada; shot a male in rocke at Gase very with active.

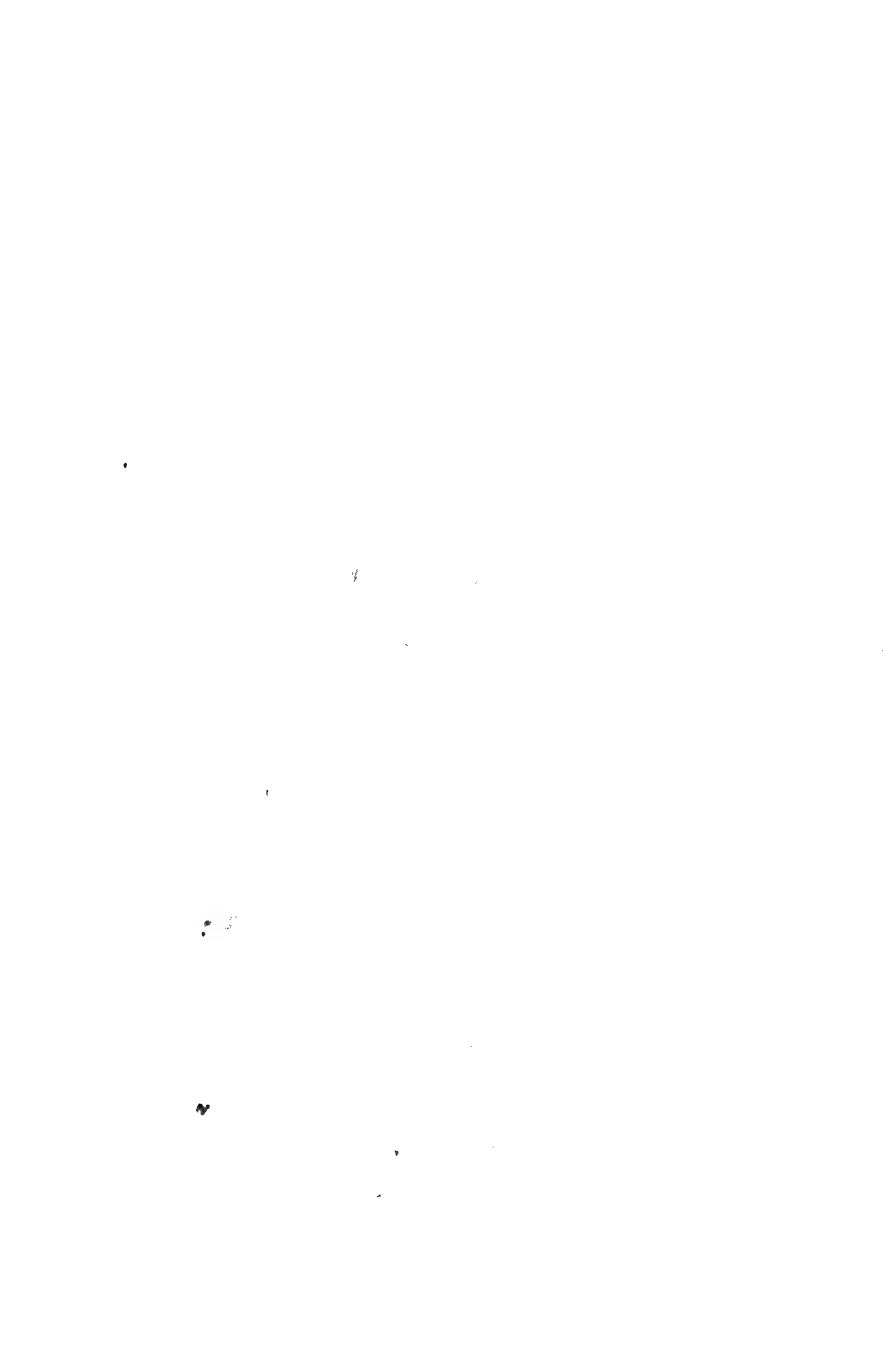
Tune 391933 another specimen collected 50 ft. loves in same location as about.

Tuly 2, 1933 Toquima Range, N slope Toquima Mtn, 2400 ft., Nye Co. Nevada: shot one of this species among rocks along with a Callo- and a cutamias quadravatatus in nearly rocks,

July 4, 1933 Toquima Range, Imi. E Jefferson, 7600ft, Tye Co., Nevada: 2 sprimens were taken near camp. The smaller specimen (20122) was very brightly marked while to larger was slightly worn. These specimens were taken in sage brush benearly pinon pines the smaller shot from the top of a dead bush.

July 11,1833

Hot Creek Range, 8 mi. w Tybo, 6700 kt. Nye Co, Nevada: none of this species was taken or



Armold-1933

Eulamias m. pictus

Iuly 16,1933

Monitor Range, Greenmonster Canyon, 7500 ft, Nyelo, Nevada: This was the dominant species around this camp. Several your were seen near the meadon about the streem. Leverel specimens were taken, all in summer pelage. July 3/1923 Quinn Canyon Mins. Burned Corral Canyon, 6700ft, Nyelo, Nevade: on a noch about a south ment of here, toward the location cited as I mi E myda, sam severel of this species but not as commonly as E. downling.

The state of the s

Entamias quadravitlatus

July2, 1933

Toguira Rarge, N stope Toguira Mtn., 9400 ft., Nye Co, Nevada: shot andles specier. This one mas shedding ar rather melting as a was the one taken on fune 30. The polage is much darken than usual and the markings are direct or invisible. The polage reminds one of an animal covered with soot, particularly over the head and shoulders.

July 4, 1933 Toquima Range, Imi E Lefferson

2600 ft. Nye Co., Nevada: amocher

specimen with worn pelage was
taken today, but less worn then
the previous specimens.

Hot Creek Range, & mi. w Tybo,
6700 ft., Nye Co., Nevada: took one

specimen below a timon pine
along the dry creek bed. It was
a feell adult or.

July 191933

		•	
			·•

Eutamias dorsalis

July 19,1933

Hot Creek Range, 8-mi. W Tybo, 6700 ft., Nye Co., Nevada: took one specimen from trap ling. Was takes under a trop set under a dead pinos at the edge of a rocky slopp. It was alive when taken held by de tail. Upon dissection and rueighting it seemed much botter formet chan E. quadwitalus. The body is wonderfully muscled and compact. a living specines raced across a warly perpendicular rock Hot Creek Range, 4mi. W. Hox Creek 6400 Et Dye Co, Nevada: Saw 2 03 of this species, that at one, and

uly 21, 1933

of this species, that at one, and several were coelected by party.
Those I saw were climbing in amount bushes. They seemed to inheit all parts of the carryon.
Here Propose print, willow, paper, and artemising predominant although annuals, Rose bushes, and current were fairly general.

nex page



Eutamias dorsalis

July 31,1933

Tuinn Canyon Mitus. Burned Corral Canyon, 6700 ft, nye lo, moada; in hunting today made a few observations on this spice. Use Davis med wich me and made some of these observations. First, this species was found more commonly on the flat them on to hilt iop. Lecord, many more were seen in a small shall then in trees. This small shoul and was covered with small fruits, apple like in nature, Dr. E. R. Hall took a specimen of this shoul. Third, his fait was found in their check pourher inheating it an article of food.

	•		

Arno 6-1933

Thomomys quadratus tisheri

July 14, 1933 Monitor Range, Greenmonster Canyon, 7600 Ht. Nye Co, Nevadai camplet a specimen of this species in a freshly opened amount at the upper and of the meadow. The mounds estend to the edge of the sagebruch but this specimen was laken in a most but not dry grassy plot. The soil was loose the grass midda shin (0-siml/20d. The hap was set about 18 feet from L stream Carte. [J. P. 4. # 178.].

Perognathus nevadensis

July 18,1933 Hot Creek Range, 44 65 Month of Hot Creek, 5900 St., Nye Co. Nevada: took 2 adults at the find and 2 young at the second location. The ground was dark with small rocks. The should never analy artemeria about 8-10 inches high, occasionally a feet. no minings were sen but one specimen, was taken in front of a small, flat opening, sardy burrow. They must have been taken before the heavy rain which came befor 9: P.M.



Armold-1933

Perognathus Parvus

Tune 30,1933

Toquima Range, 15 mi. E Jefferson, 7750 St., Nye Co., Nevada: trapped one male on edge of dry wash beneath Ephedra bush, only one caught in area although several trape nere nearly.

kly 1, 1933 Inapped one from a series of 20 traps set beneath shules along rocky wall of about wash. Trapped one near the same location as June 30. The pouches were filled with rolled oals, the bait.

uly 7,1933

Monitor Rangel 9 miles East Toquima Mtry 2000 ft., Nye Co., Nevada: put up a specimen taken by Paul T. Wilson. From a five wer taken by the party last night. This specimen was carrying seeds, apparently of the Compositor and I karger seed.

July 10,1933

Hot Creek Range, 8 mi. W. Tybo, 6700ft, Nye Co, Nevada: took one specimen among roche near a trap containing a Peromysus arinitus. not a typical ? / Perognathus habitat.

	the n	
	,	
	,	

Rerognathur paruns

July 27,192 Juin Canyon Forton, Burned Corral Canyon, 6700 ft, Myo Co, newde; cought 2 sperimen, an adult or and a five. of, in trups set near the rocky hillwish yet under artemeria. Morre una taken in the canyon.

Armold-1933

Perognathus formosus

July 24, 1933

Quinn Canyon Mtns. Big Creek, 5800 ft,

Mye Co; sevada: Caught sin specumen

I has species many he rocks

at about location. The other,

species trapped was Peromena.

Crimites. This is the largest

Perognathus trapped on his

trip. The long hairy tail and

he smoky bolor readily disting
wither this species.

	,		
w			
·			

Arnold.1933

Dipodomys ordii columbianus

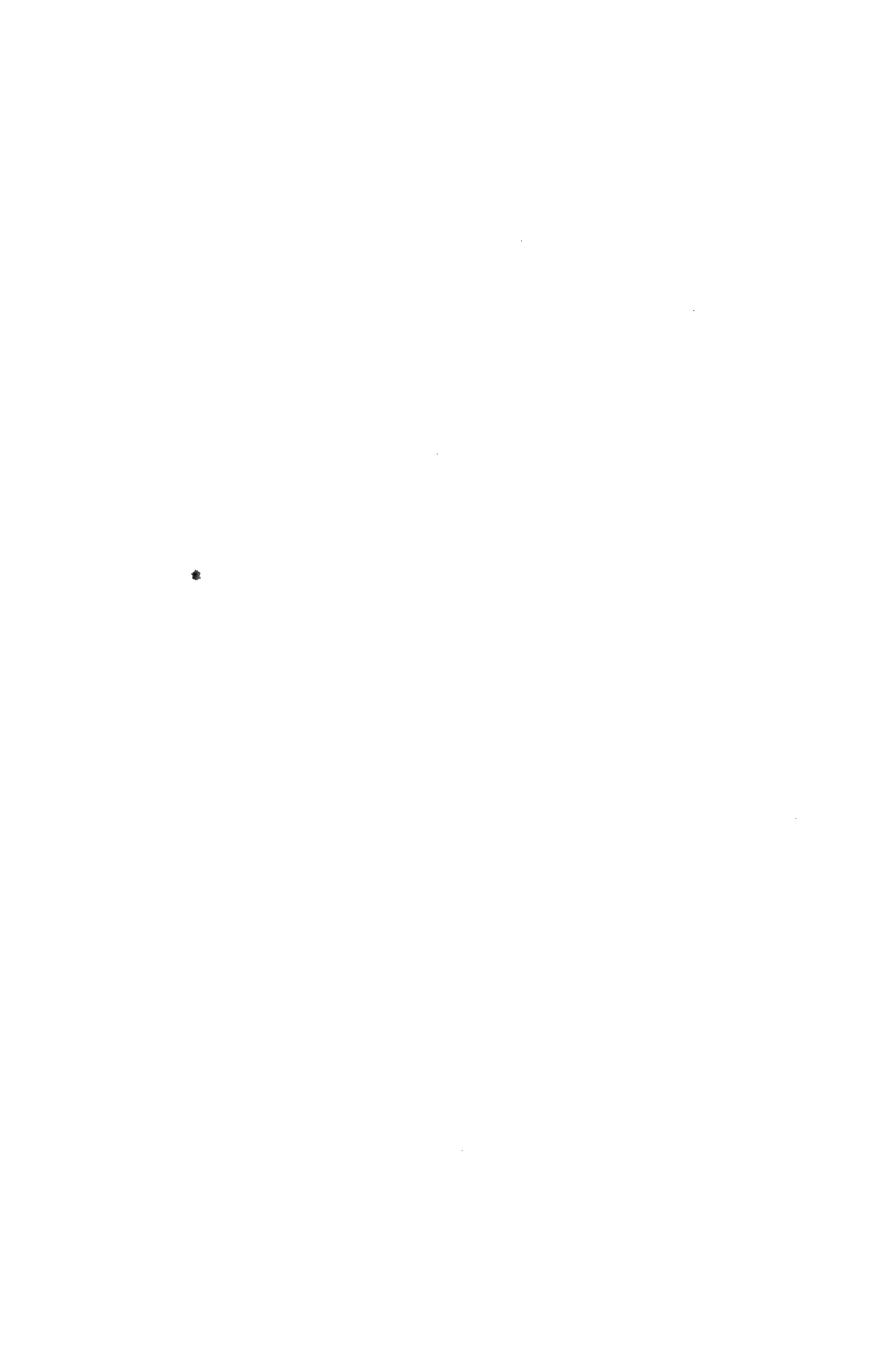
Tuly 7,1933

Monitor Valley, 2 mi. E Togusma Mr. 7000 ft, Mye Co, Nevada: put up 2 specimens collected by Paul T. Wilson from this locality. my traps line in similar territory yields only missodipodops while that 2 Dipodomys! This species is of medium sige + fairly light colored,

July 9,1933 Ralston Valley, 155 mi, NE Tongoats, 5900 ft, Nye Co, Nevada: took 2 Dipodomys here one of which was of this species. The 2 species D. D. Columbian, and D. luige very taken in the same sand dures som sage clumps + in the name type of set.

uly 19/933

9 mi. w, 3 mi. 5 Tybo, 6300/7. Nye Co. Nevada: 3 members of to garty caught lang number of his species at this location. They were taken on rard among sage clumps,



Dipodomys mieros levipes

July 9,1933

Robston Valley, 15t mi. NE Tonopah, 5800 ft., Nye Co: Nev: took and of this species in same traplers with. D. ordis. It is for donker trings and in all measurements slightly larger Dan D. ordis.

July 19, 1933

Palston Valley, 3+mj. E + 1 mi. N Tonopah, 3650ft., Nye Co., Nevada: W. C., Russell and Fr. W. Yorkam took a mumber of specimens of deso with above location. one specimen of D. Leseste was taken.

Tuly 20,1933

Hot Creek Valley, 3½ mi. E. Hot Creek, 5 650 ft, Nxe Co, Nevada, whis species seemed to pudominat among have of this genus taken. Many of the nouth parts and the intesting new a yellow-green, seemingly colored by a pollens

Dipodomys deserti

July 19,1933

Ralston Valley, 34 mi. E + 1 mi. N Tongpah, 5650 ft., Nye Co., Novada: put up one specimen Cahen by W. C.
Russell at above Cacation. This was the only one of his species from about 25 Dynadomys Taken by Russell + F. W. Gorham. Him very much Canger + Cightes thousand a species + is characterized by the third toes:

		,		
			•	

Microdipodops

July 7,1933

Monitor Valley, 9 miles E Toquima Mtn., 2000 ft., Nye Co., Nevada: Caught 4 spesimens of this genus in my traps last night. Fivo were living, two lead. The specier resembles greatly heir namesahl + kinsman, In Kangaroo rat, and was found in similar localities. The workings were fairly common, yet from 57 mice traps only 4 were caught and only there spelling. Those cought were taken men holes + mounds, a minature of that of Dipodomys.

"uly 9,1933 Ralston Valley, 15 = mi. M.E. Tonopal,

5800ft, Mye Co., Nevada; caught one among sand dunes. Caught in open between sage clumps,

uly 10,1933. 9 mi. W. 3 mi. 5. Tybo, 6300 ft; Nyo Co., Nevada: 3 members of the party took large number of this species here, a short trips from the base camp in the hills. I. P. Hall took 32 specimen of his species from 103 traps. Others

Tuly 20,1433

had similar experiences. Hot Creek Valley, Smi. WHot Creek, 5650 It. Nye Co. Nevado: took one specimen from 04 tiges.

		. •	
			·
		,	
	•	,	
			8

Microdipodops

July 22

Nend Reveille Valley, Old Mill, 6200 tt, Nye Co, Nevada: camplet eleven Brievodipodops about mil east of above location, more way taken on ground trampel over by cattle than on smooth, fine sand in a wash nearly. Karlroad Valley, 95 m. E. New Reveille, 5100 ft., Nye Co., Nevada: helped catch a specimen alive at 6: pm. 9+ was sen from the can and -he chase followed. We day 8-10 when into the burnon into which I don't and I nam part our bands into another burnow. This burrow was shallow book storage. It was light alie for study. It uttend no sound as captured. Several other burious apened were found to be plugged with sand at about 8 inches below Le surface.

Tuly 24,

		,
		•
	•	

Peromyscus crinitus

June 39,1933 Toquima Range, 1 mi. N.E Jeffersen, 7600ft, Nye Co., Navada: put mo specimen of this species takes by F. Gale. The longer tail readily distinguisles it from. E. m. sonovieni, It occur in the same habitat, Monitor Valley, 8 mi. & Togulma Mtng July 8,1933 71.00 ft., Nye Co., Merada: put up specimen taken by Paul

Wilson from its above location at foot of hills.

July 19,1933

6200 ft. Mye Co, Nevada: took one specimen in rocks while setting for Peronyour truck, July 12, 1933 Monitor Range, Green monster Campon,

Hot Creek Range, 8 mi. w Typo,

7500 ft. Nye Co., Nevada: took taken. All were from a mong dy rockson a rocky point war

Tuly 21, 1933 Hot Creek Range, 4 mi. N Hot Creek, 640eft, Nye Co, Nevada: caught one adult mil & one young among drocks. Pinon pine and artemesia mere the common plants mich scattered gran (ye and clumps.



crinitus Peromyscus

July 24

Quinn Canyon Mtns., Big Creek 5800 ft, Nye Co, Nevada: caught 13 of this species from a total catch of 19 specimens. all traps were set eicher along where set on the rocky hillsick. about 30 feet from the base of she hill ran the steam lind with wetheren and poplar. Leveznacher famous was the orter species trapped nearly. July 30,1933 Zum Canyon Mitno, 2 mi. E Nyala, 2000 A. My Co. nevada: canglet 2 of this species in cowes, in trops set for Motoma.

. • . •

Peromyseus maniculatus sonoriensis

June 29,1933

Toquima Range, Imi. E Jefforson, 7600ft., Nye Co., Nevada; several collected by party.

Tune 30,1933

Toguima Range, 15 mi. E Jofferson, 7850ft.,

Nye Co, Nevada: trapped one
female in dry wash under

small bush; many mus in

wash seemed to be made by

this species.

July 7, 1933

Monitor Valley, 9 mi. E Toquima Mtn.,

7000 ft., Nye Co., Nevada: put up 2
skins today of specimens trapped
by Paul Wilson. Several members
of the party took specimens here
although I caught none, one
female contained 5 embryos 2 in the

right, 2 in the off horn, 15 mm long,

Ralston Valley, 15 to mi. N E Torogah,

July 9,1933

5800 ft; Nye (o, Nevada: took

this species on sand dunes in

traps set for microdipodops and

Dipodomys. In the same

trappling Topodomys, microdipology

Perognathus and Perompeus

crimitus were taken

Tuly 12, 1933

Monitor Range, Greenmonster Canyon 7500 ft, Nyelo, Nev: took 4 specimen

		₹•

Teromyscus m. Sonoriensis

from a line of traps set in a rocky point mean camp, several were young. The rims were similar to chipmunk runs in some places & in other apparently cominded with those of restoma.

July.19,

Hot Creek Valley, & mi. W Hot Creek, 5900 ft., Nyelo, Nevada: caught one mole of this species at above location from 10 traps set at location. The trap was set under Con grave wood Sanculatter / about 30 feet from to road.

July 21, 1933 Hot Creek Range, 4 mi. N Hot Creek, 6400 ft, Nye Con Nevada: took 4 specimens along creek in traps set for show, one specimen must have been some out into the water. more of this species mes taken somony the rocks but was replaced theo by P. Crimitus. All spesimens taken were adults, The traps were set among mint plants men to edge of the street a arrong grans blades.

No.

Peromyseus m. sonoriensis

July 26,1923

Turner Canyon meters, Burned Corral mitino, 6700 ft, me lo, nevada; caught 12 of this species in this locality. They were trapped on do hitlaide, flat, steam lack, end rocky ledge. They were taken in the same rocky ledge as Pi truei.

July 29, 1933 Juin Canyon mon Burned Corral Canyon, 6800 St. Myc Co. Mevada; Caught 18 of this species in trops set among the traps for P. Crimitus and P. truis - Caugt one P. truei. July 30, 1933 Zumn langon totomo. Burnd

Corral Canyon, J 7 mi. E Nyala, 7000 Sty mu lo, nevada: caught 4 specinens and 2 P. crimbers in caves in which neotions sign was very abundary. These caves mere set high on the cliff.

		•	
	,		

Peromyscus truei

July 10,

Hot Creek Range, 8 mi. W Tybo 6700 ft; Nye Co, Nevada: took one sperimen among nother on south facing slope. There were only 2 token in the camp, apparently in same rock with P. crintus and Perognathus parous.

July 26,1933 Juinn Canyon Intra, Burned Correl Canyon, 6700 ft, me Co, Muada; Caught one specimen 107) in a rocky canyon on a rocky ledge. The only one taken by anyon that night,

July 27 1933 Zuman Canyon motors, Burned Corral Canyon 6800 ft, my Co. mer. two specimens were trapped one in de canyon, and one on the hillside. I believe it is this species that steals the bait from rat trops get men any with mis traps when sicher are set on I hillion Come tail in a moune only swiding /

Neotoma lepida lepida.

July 14,1933

Monitor Range, Greenmonster Canyon, 7500 ft; Nye Co; Nevada: Took on of this species within 15 feet of a trap holding a bushy tailed rat. Lign of rat was very abundant all them the rocks but so traps one night and, 5 the next took only a rate although 10 traps during the day took & Callopermonhetus. Hot Creek Range, 4 min & Hot Creek 6400 ft, Nya Co, Nevada: took 5 specimens along rocky slope of canyon. Fur families evidently were suchling young. Very lettle ign vas seen

and all houses seemed to be

among the rocks.

July 21, 1933



Neotoma cinerea

July 14/1933

Monitor Range, Greenmonster Canyon,
7500 ft., Nye Co, Nevada: took
large male of the species.
among words near camp. Took
M. Sepida near the same play.
Light was abouted but both
species were difficult to trop.

•

•

Microtus mordax

July 1,1933

Toquima Range, 15 mi. E Jefferson, 7750 ft, Nye Co, Nevada: trapped 2 specimens in dry wash, traps being set under dry brush. Carely I femal with embryos 24 mm in length, 2 in night + 3 in 6/4 horn. There was no grass nearer than 50 St. & when only a few spears.

July 8, 1933

Monitor Valley, 8 mi. E Toquima Mtn- (Real) 2100 ft, Nye Co, Nevada: put up a specimen taken by Ole Tilbland, a femal containing 5 embryo. I were in the right and Fin the left hown and were about 6 mm in length. The specimen's skull was everlid by a trop.

July 26, 1933 Quinn Canyon mitns, Burned Corral Canyon, 6700 ft., Nye Co., Nevada: Caught a specimen (4) about 10 feet from Le creek. It was caught before 10: p.m as it had suffered a heavy shows and no rain fell after 10: p.m.

			·
	,		

Cony Ochotona princeps nevadensis

July 5, 1933

Toguma Range, su slope Jefferson Peak 8700 ft., Nye Co, Nevada; ar a member of a party of 4 hunted conies from 3-34 hours along a morth branch of Jefferson creek. I saw 4-5 conies and took 2 specimens, one maly and one femal. The famal was apparently suchling young. The Conies were not common non yet rare as 4 people took 12 in a short time and all were taken as singles. Thousaning were taken from one rock slide uhil Hall took 3 from one slide. S. Durant observed on carrying hay.

July 15,1933 Monitor Range, Green monster Canyon, 8200 St., Nye Co, Nevada: in rockslide collected one carry and saw 2 ochers. a gramit slide. July 16, 1933. Hunted this species from 6-911.m today in same slid that one was collected yesterlage fau no conies myself acknowly the party took 6. ?

made the factoring helitat

•			

Ochotona P. nevadensis

II41416,

Monitor Range (con) notes while watching the slide. The slide is composed of granito talus and the prieces are flat and vary from 3-8 coules this and from 8-24 wishes in drained. The rocks were covered with many species of lichen and the slide gave a rustry brown color to the bullsid. The shide rested at from 30-50 degree angle with the horageness. Clumps of bushes were scattered over the slide usually from 40-75 feet apart but somelines may on less. These champs were composed of Inter. Malogony (Cerescaying) Curant (Ribes), Lage but (artening tridertala!) and nove (Rose. Beneats the should were a few annuals and clumps of bunch grass. The and there levels the alger of rocks, per grass. (clumps 2-3 miles seros). In small crevier won we found. He droppings a hay was bound.

	,		

Hack-Rabbit Lepus C. deserticola

Arnold-1933

July 8,1933 Monitor Valley, 9 mi. E Toquima Peak. 9000 ft., Nye Co, nevada; jæchrablik are more common here than in other locations visited. I have seen at least 4 adults and 4-8 young within a 's mil radius of the camp. Probably many more are present. The adults are exceptionally large. They are not very wild.

July 21, 1933 Zuinn Canyon Mons, Big Creek 5700 ft, Nye Co, Nevada: sam gong gock rabbit læt night. They have not been common at any camp. nowhere have I seen as many as at monitor Valley.

• *		•	

Arrio 12-1933

Sylvilagus M. grangeri

June 291933 Toquima Range 1 ± mi. E Jefferson 2750 ft, Mye Co. Nevada; one specimen of this species was shot among the which sage brush of a dry zulch. The hellside were covered with a scattered growth of pinon pines, abundant sign nearby ride caled that it spent some lime chap. no others were seen. The specimen was a femal. Typon arriving at camp the Davis immedially gutted it to make a blood test the certain measurements were not taken. The wat was consumed as food.

Pigmy Rabbit Sylvilagus idahoensis

July 6, 1933

Monitor Valley, 9 miles E Toquima Mtn., 7000ft, Nye lo, Nevada; saw 4 specimens while widing out to set traps. Alengted to shoot but they reached their holes too soon. Saw much sign and several colonies of holes while setting traps, They seemed to prefer the low open sopehust to the smore open dense clumps.

Sage Hen Centrocercus urophasianus

July 11,1933

Arnold-1833

Fish Spring Valley, 2 mi. N Fish bake, 6600/t., Nye Co., Nevada, took two males beside road. Both were very fat. Dr. Hall collected a male also. No females were seen meanly.

July/6,1433

a few notes on a female +

2 yours. The young says here

ran like quaid running

nearly evect with head bobbuy

at every step. The head

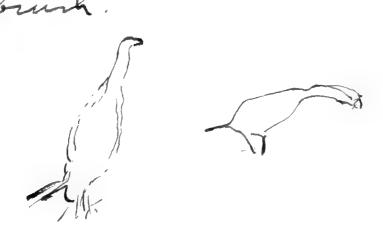
seemed to be fuld as evect as

possible, the laid was heed

at an angle: while the

typical quaid-like run worden

brush.





Nevada Sage Sparrow Amphispiza nevadensis

July 16,1933 Fish Spring Valley, Fish Lake, 6500 ft, Nye Co, Nevada: I shot an adult final march hank flying over the tule - set ava to the north of the lake. as the hank lit, det, whis young sage spanon was found in its lalons. It's weight was 11. I grams; it was nearly fully feasherd; it was still unem and had been clutched there the sump + back, the head o shoulden untouchet. no. 191 J. Arnold.

	ъя		

Flox Sparron P. iliaca

Arnold-1933

Iuly 5,1933 Toquima Range, Imi. E Jefferson, 7600 ft, Nye Co, Nevada: I.P. Armold, nos. 123-129 incl. Discovered two for sparrows tauting an alarm by cheeping, scratching, calling ite. Shot one adult and upon reaching the fallen bird found it lying upon a waterander, the later having a young bird in itaprouch and a lump a few inches back of the head. a bing search revealed a mest 25 ft from the ground above these animals. The mest contained 3 young for sparows. The smake was easily captured as its month was lodged over the young buil. The two adults, snake, and young built were collected. The adults were preserved as skins and the alher as alcoholic specimens, The ment was built of fibers of back, about 6 inches over all, and was in the lower branche of an alder about 15 ft from

-che main stream.

	*		
·			
· ·			
· ·			
· ·			
·			
·			
·			
·			

Phrynosoma platyr inus

July 18

Het Creek Range, 2-10 mi. Morth

Hot Creek, 5900 ft. Nye Co. Nevada:

E.R. Hall, O. Lilleland, and myself took

24 of the horned toads in a

short time. All were taken within 4 ft.

from the road. Some were much larger

than others but all seemed the same species.

Some were tinged with orange, some with

brown and one was a decided yellow-Antor.

One specimen was deformed a had several

borns missing.

			. \$
			, a
			,
		•	
•			
		,	
	•		

•				
		•		





		, version vi				
			4			
			<i>"</i>			
*						
						1
			*			
		A. C.				
· · · · · · · · · · · · · · · · · · ·	1.4					
		*		(V)		
	y.					
			- 10 (302) V			
					\$4.4 \$4.4	
V4.02						
100						
						± 1/€ 100 mm = 1
			11. 25. 11. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			
			· ·			



